

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

05/31/2011

Laura Martin  
Assistant District Attorney, Suffolk County

Dear ADA Martin,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan & Peter Piro.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read 'Annie Dookhan'.

Annie Dookhan  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631

## Curriculum Vitae

**Annie Khan (Dookhan)**

### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### **Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Peter Piro

### EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

### HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

### EXPERIENCE

#### Department of Public Health/State Laboratory Institute

Chemist III, II, I/ Assistant Analyst

December 1991-Present

Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Analyze controlled substances for State and Federal law enforcement agencies. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

#### Massachusetts Health Research Institute

Laboratory Technician

September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank.

### TRAINING AND ORGANIZATIONS

- \* Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- \* Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- \* Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27<sup>th</sup> 1995.
- \* Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- \* Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25<sup>th</sup> 2002, at Agilent Technologies.
- \* Notary Public since 1993.

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*

*Executive Office of Health and Human Services*

*Department of Public Health*

*State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

**DRUG RECEIPT**

City or Department:

Quincy

Police Reference No.:

[REDACTED]

Name and Rank of Submitting Officer:

DET. ~~LEWIS~~ COEN

Defendant(s) Name (last, first, initial):

[REDACTED]

*To be completed by Submitter*

Description of Items Submitted

*To be completed by Lab Personnel*

Gross Weight

Lab Number

PIECES OF ORANGE TABLET.	1.74g	[REDACTED]
2 GREEN TABLETS	1.78g	

Received by:

JSF

Date:

6/3/10

No. [REDACTED] Date Analyzed: 9-24-10  
City: Quincy Police Dept.  
Officer: Detective BRIAN COEN  
Def: [REDACTED]  
Amount: 1.0 Subst: BRKN TAB  
No. Cont: 1 Cont: pb  
Date Rec'd: 06/03/2010 No. Analyzed:  
Gross Wt.: 1.74 Net Weight: 0.35  
# Tests: 6 ASD  
• 2 P.P.H  
Prelim: Buprenorphine Findings: Buprenorphine  
B

No. [REDACTED] Date Analyzed: 9-24-10  
City: Quincy Police Dept.  
Officer: Detective BRIAN COEN  
Def: [REDACTED]  
Amount: 2.0 Subst: TAB  
No. Cont: 1 Cont: pb  
Date Rec'd: 06/03/2010 No. Analyzed:  
Gross Wt.: 1.78 Net Weight:  
# Tests: 1 ASD  
• 2 P.P.H  
Prelim: clonazepam Findings: Clonazepam

Pharmaceutical Analysis Sheet

Sample #                      City Quincy E.O. weight 1.7

Count 1 Description: orange round tablet

net wt = 0.3507

Ballistic I.D. 2

17-pb

I.D. Source                     

D O

Buprenorphine

Final I.D. Buprenorphine MS chemist ASD completed 9-24-10

Sample #                      City Quincy E.O. weight 1.7

Count 2 Description: green round tablet

net wt = 0.3435

Ballistic I.D. 93 833

17-pb

I.D. Source Mylan Labs

Clonazepam

93  
833

⊖

Final I.D. Clonazepam MS chemist ASD completed 9-24-10

Sample #                      City                      E.O. weight                     

Count                      Description:                     

Ballistic I.D.                     

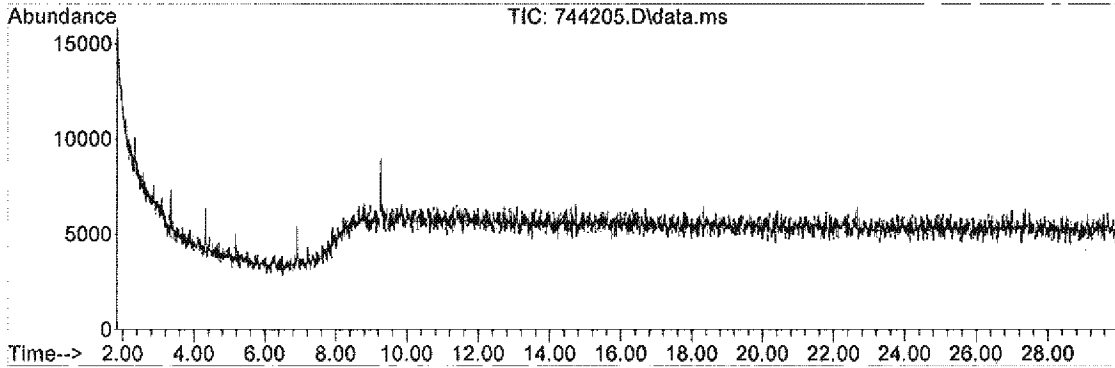
I.D. Source                     

Final I.D.                      MS chemist                      completed

✓ P.D. 10  
5-18-11

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Operator : ASD  
Date Acquired : 22 Sep 2010 14:39  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

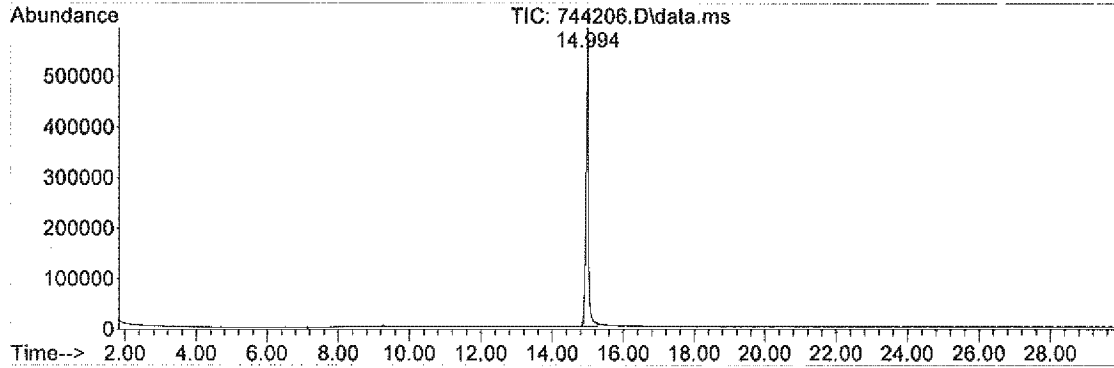


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744206.D  
 Operator : ASD  
 Date Acquired : 22 Sep 2010 15:13  
 Sample Name : BUPRENORPHINE STD  
 Submitted by : ASD  
 Vial Number : 6  
 AcquisitionMeth: WSCREEN.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
14.994	2834373	100.00	100.00

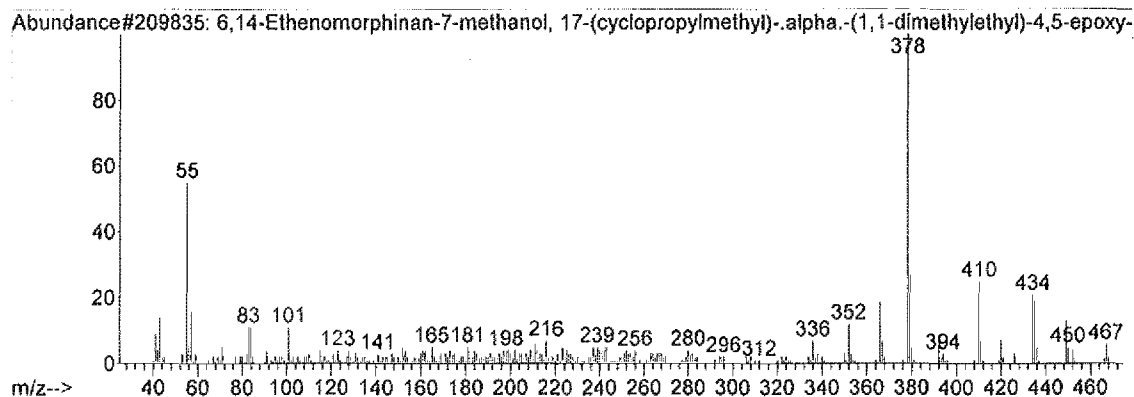
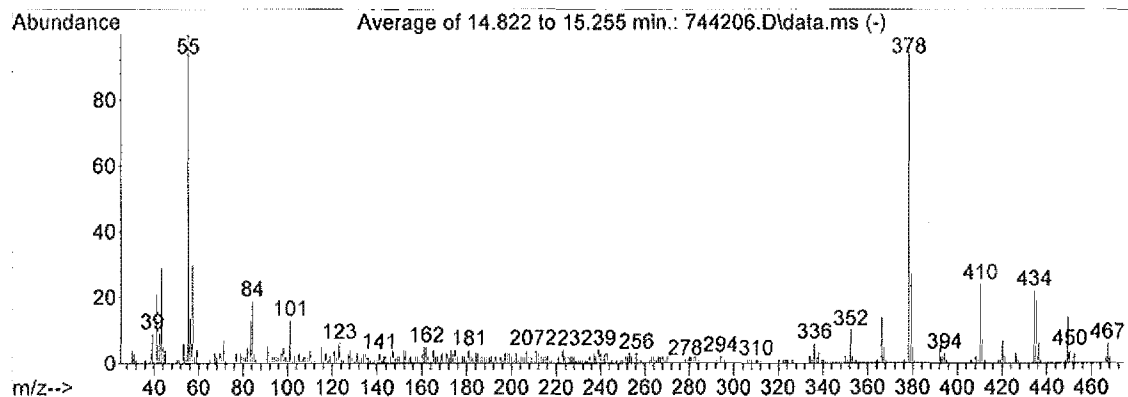


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Operator : ASD  
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Submitted by : ASD  
Vial Number : 6  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

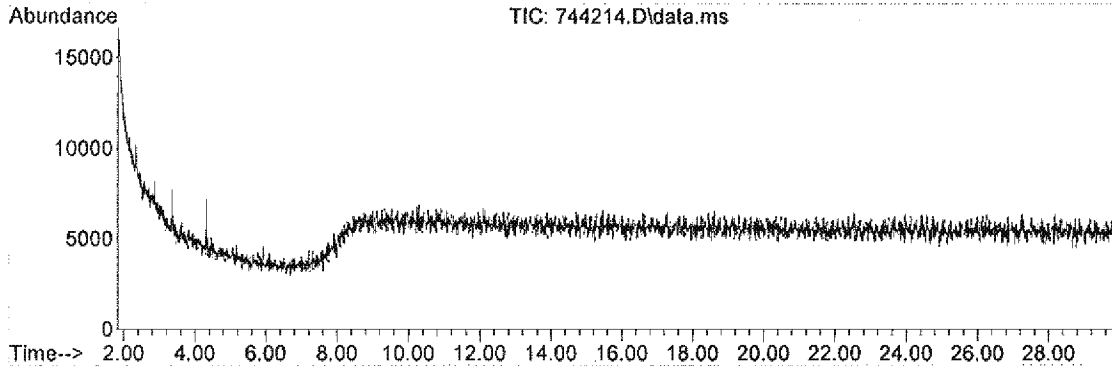
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C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	14.99	C:\Database\NIST08.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	96



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Operator : ASD  
Date Acquired : 22 Sep 2010 19:47  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

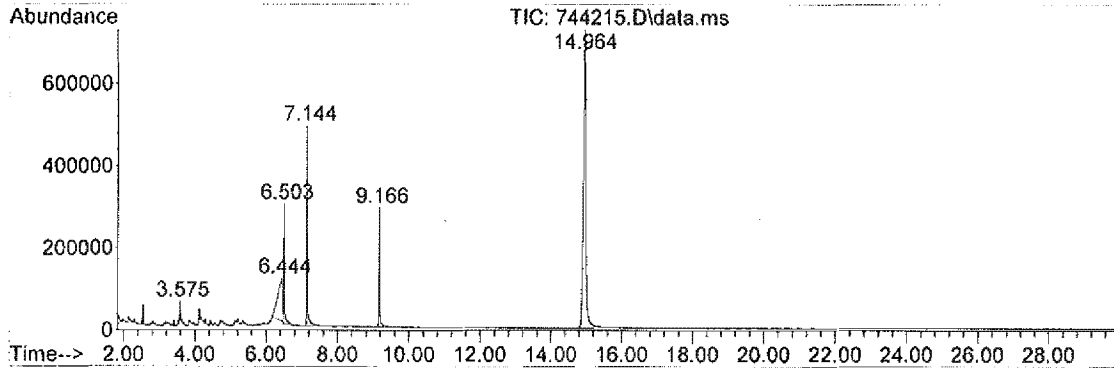


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744215.D  
Operator : ASD  
Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE



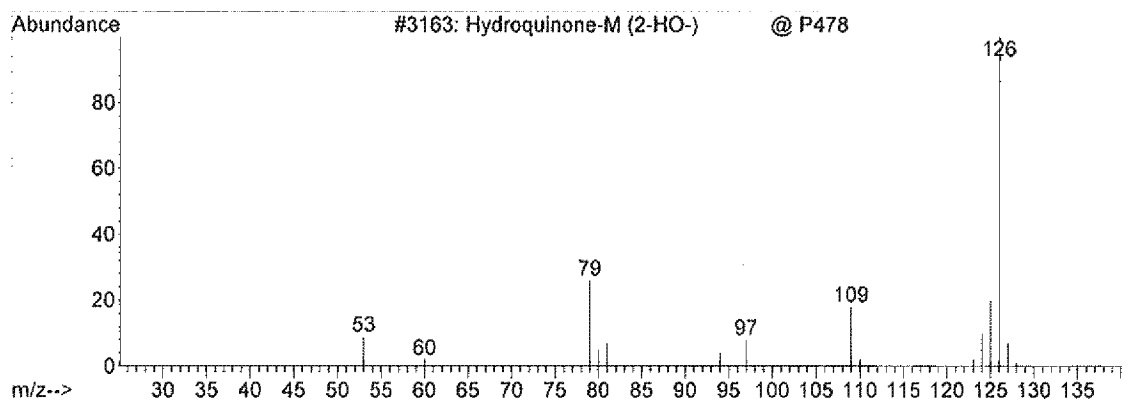
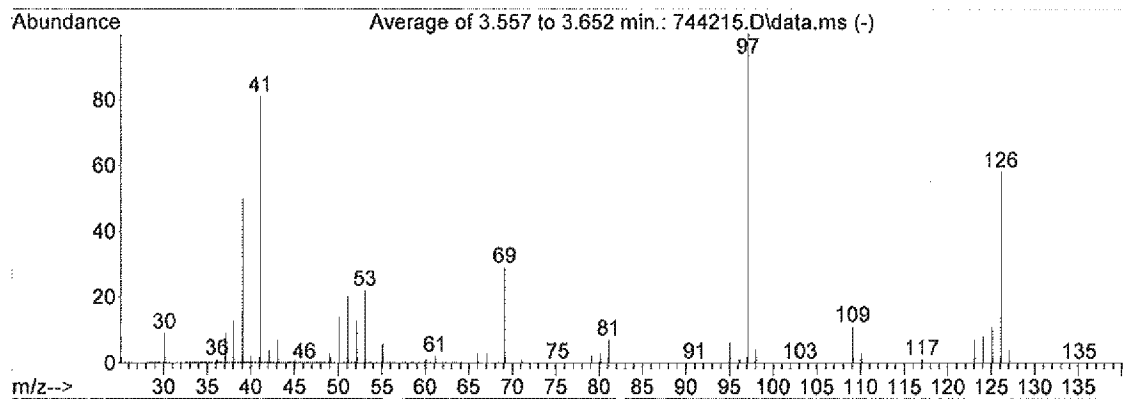
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6.444	949574	15.36	26.22
6.503	397079	6.42	10.96
7.144	624070	10.10	17.23
9.166	470921	7.62	13.00
14.964	3621983	58.60	100.00

## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744215.D  
Operator : ASD  
Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.57	C:\Database\PMW_TOX2.L		
		Hydroquinone-M (2-HO-)	@ 000533-73-3	30
		Perhexiline-M (HO-) 2AC	000000-00-0	9
		1-Butene	000106-98-9	9

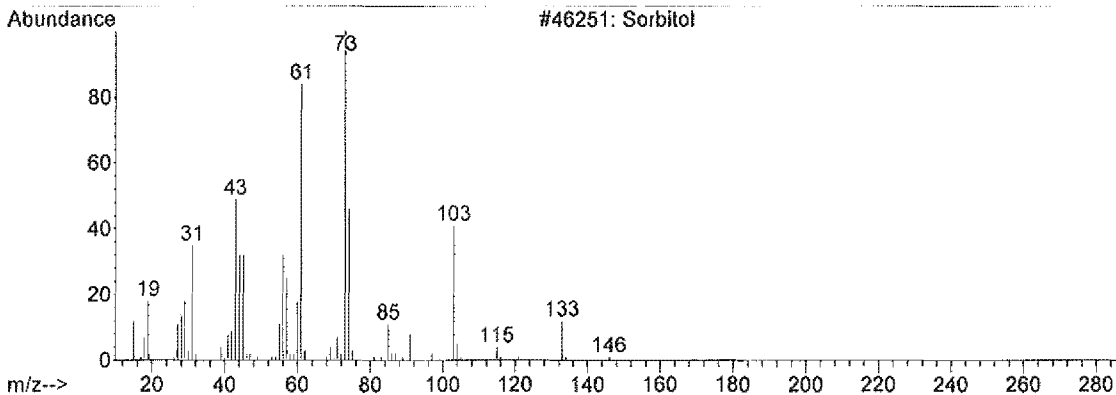
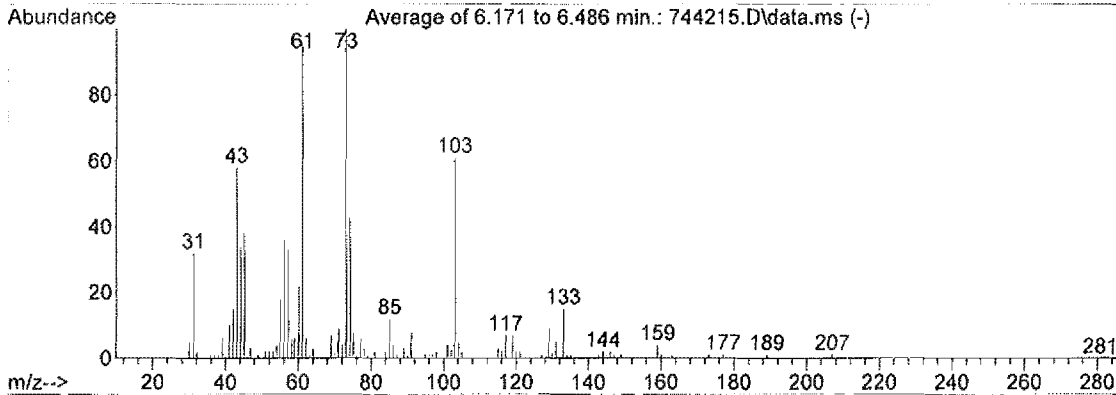


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Operator : ASD  
Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	6.44	C:\Database\NIST08.L		
		Sorbitol	000050-70-4	91
		Glucitol	026566-34-7	90
		Sorbitol	000050-70-4	90

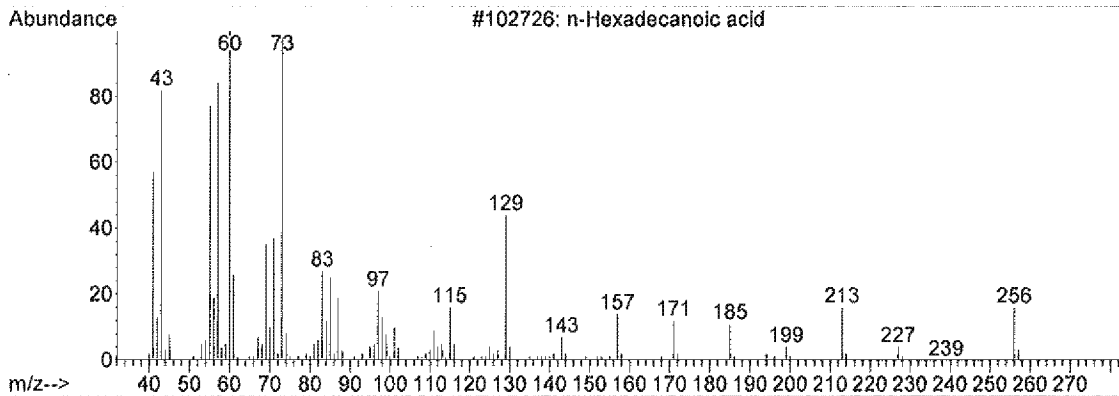
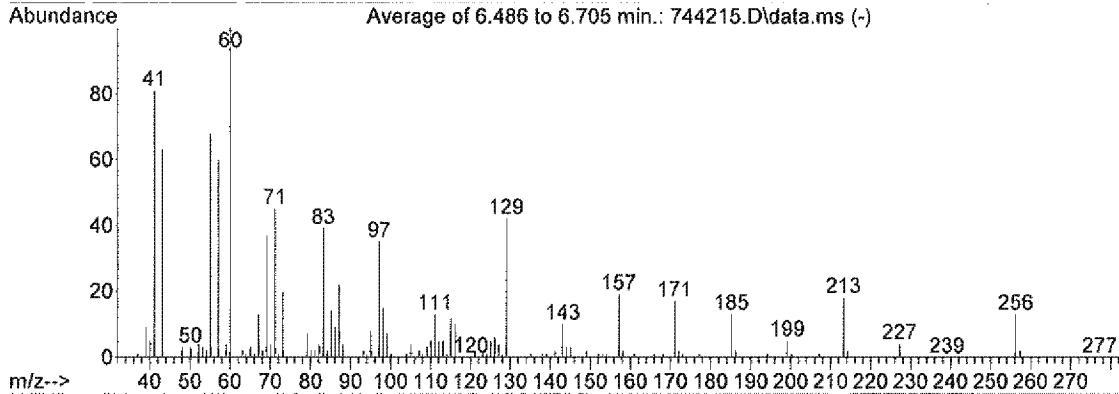


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Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	6.50	C:\Database\NIST08.L		
		n-Hexadecanoic acid	000057-10-3	90
		n-Decanoic acid	000334-48-5	47
		Oxalic acid, cyclobutyl octadecyl e	1000309-70-8	22

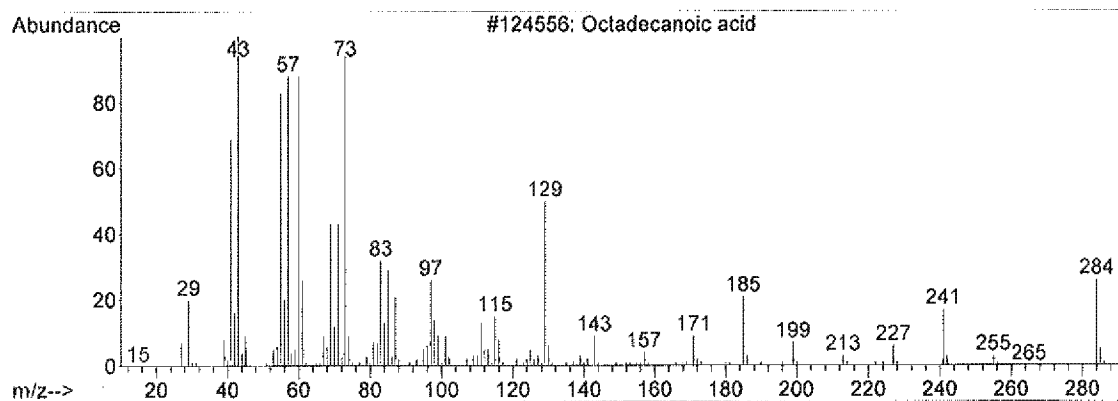
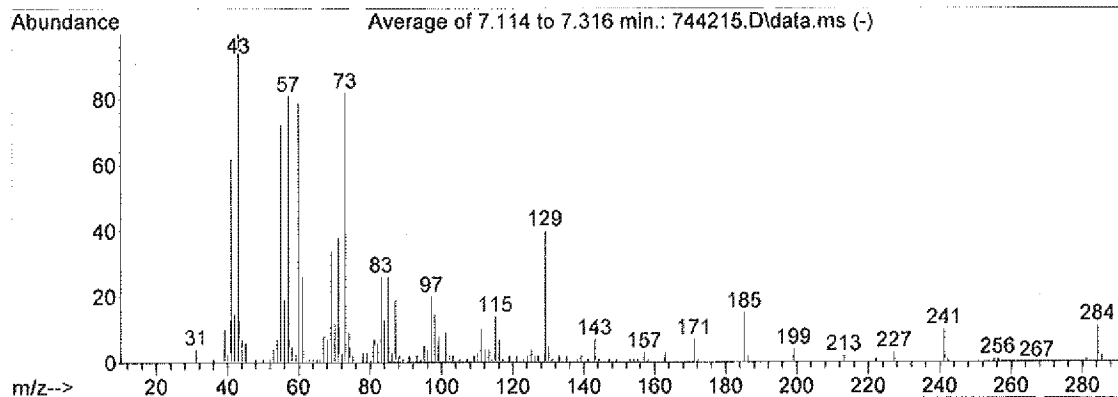


## Information from Data File:

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Operator : ASD  
Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	7.14	C:\Database\NIST08.L		
		Octadecanoic acid	000057-11-4	99
		Octadecanoic acid	000057-11-4	98
		Octadecanoic acid	000057-11-4	95

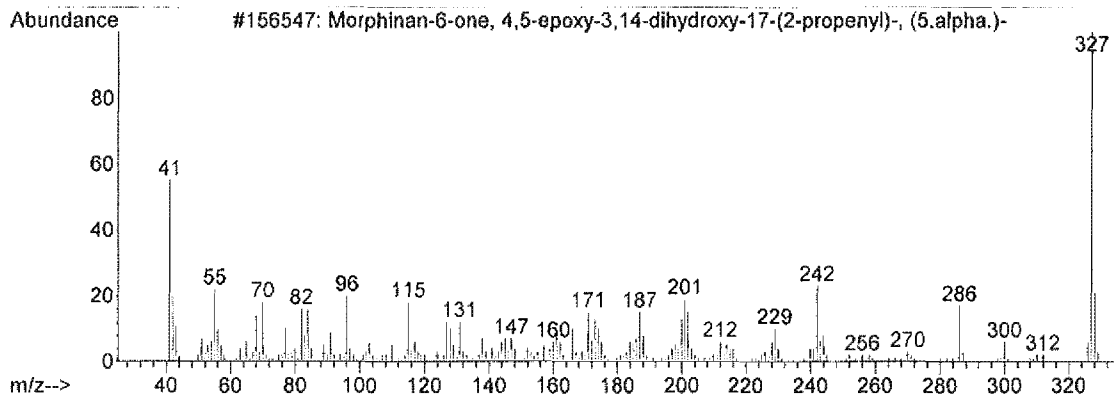
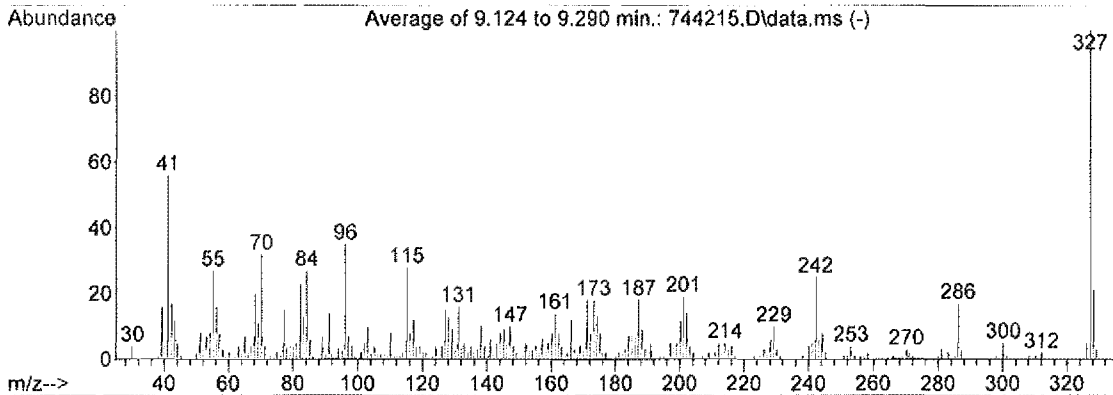


## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744215.D  
Operator : ASD  
Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	9.17	C:\Database\NIST08.L		
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	94



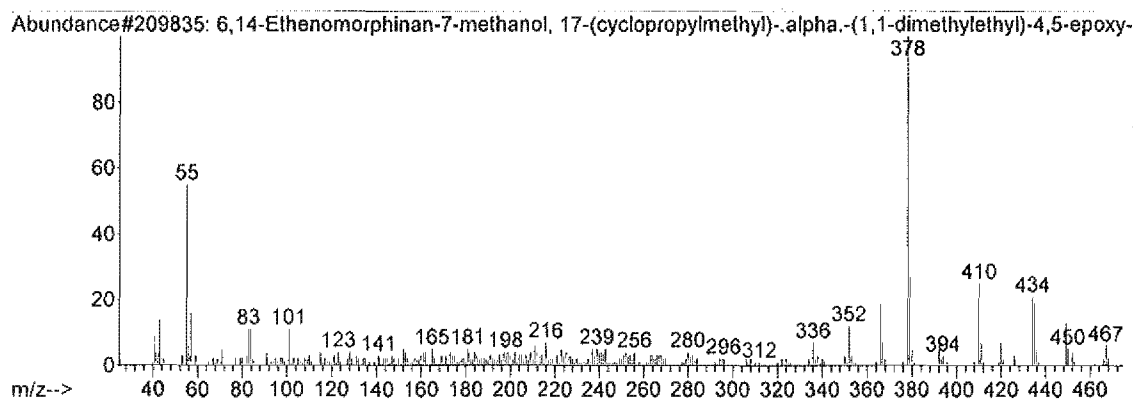
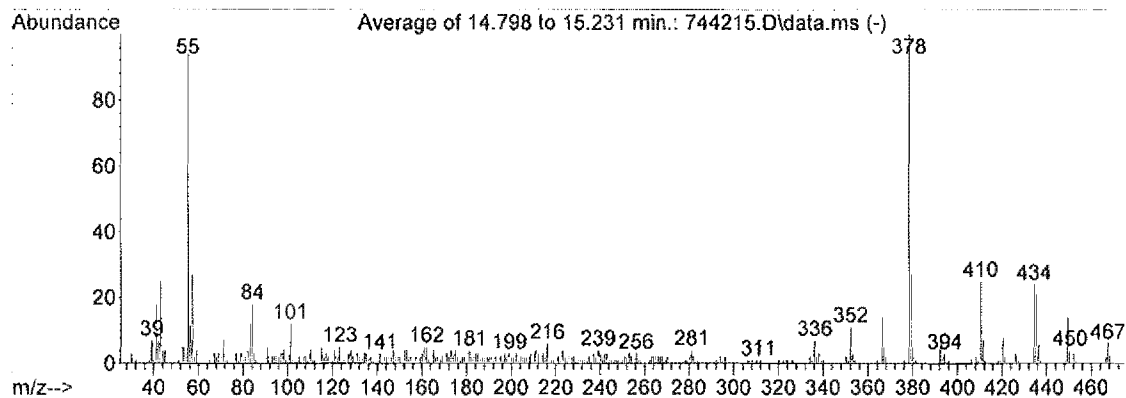


## Information from Data File:

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Operator : ASD  
Date Acquired : 22 Sep 2010 20:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

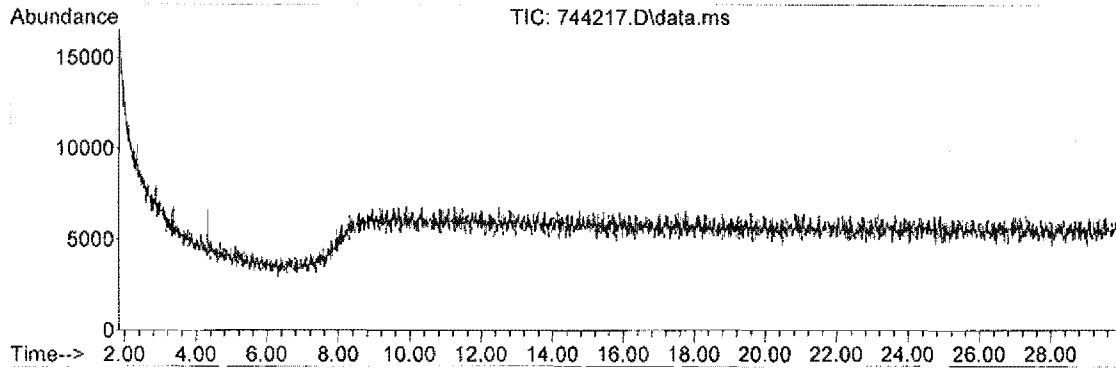
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
6	14.96	C:\Database\NIST08.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	97



## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744217.D  
Operator : ASD  
Date Acquired : 22 Sep 2010 21:29  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

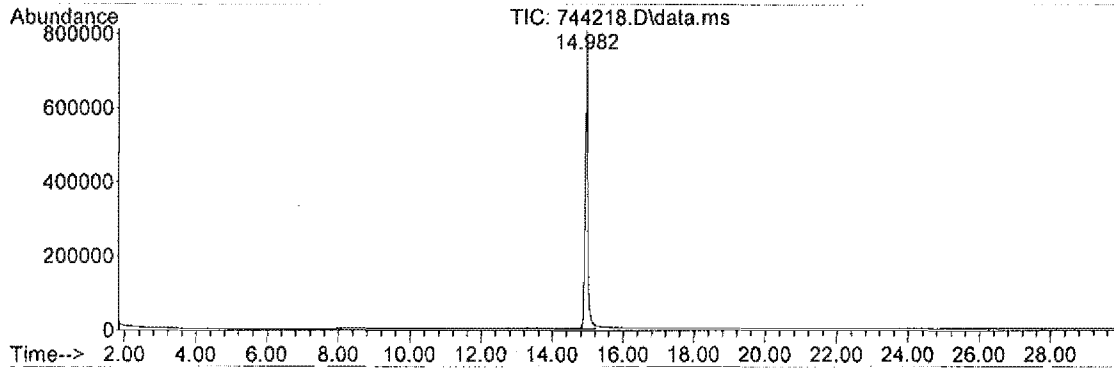


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744218.D  
 Operator : ASD  
 Date Acquired : 22 Sep 2010 22:03  
 Sample Name : BUPRENORPHINE STD  
 Submitted by : ASD  
 Vial Number : 6  
 AcquisitionMeth: WSCREEN.M  
 Integrator : RTE



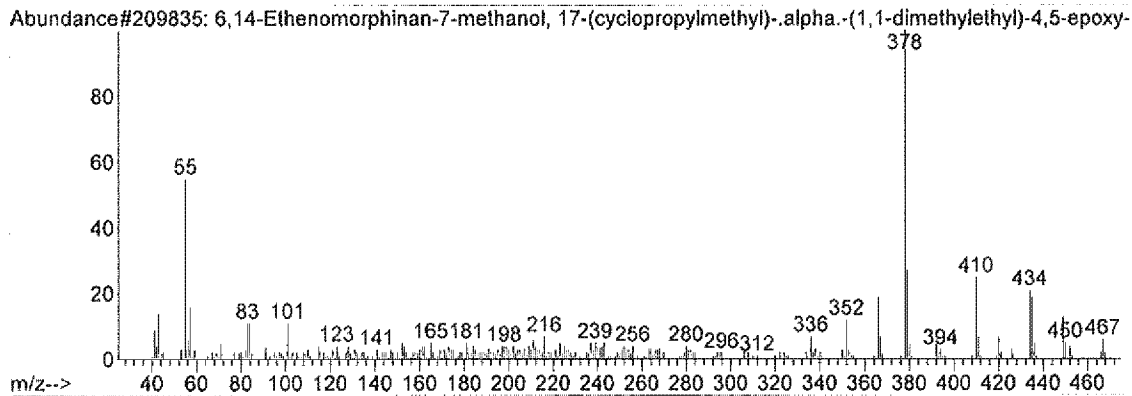
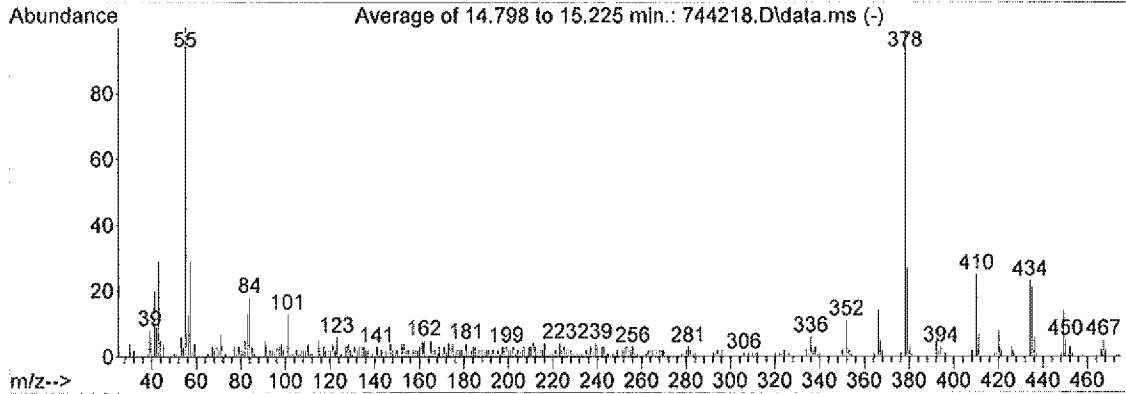
Ret. Time	Area	Area %	Ratio %
14.982	3883816	100.00	100.00

## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744218.D  
Operator : ASD  
Date Acquired : 22 Sep 2010 22:03  
Sample Name : BUPRENORPHINE STD  
Submitted by : ASD  
Vial Number : 6  
AcquisitionMeth: WSCREEN.M  
Integrator : RTE

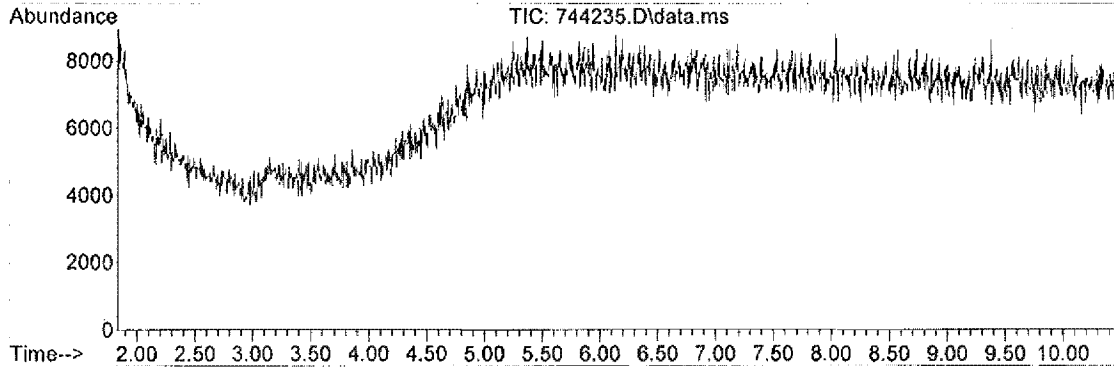
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	14.98	C:\Database\NIST08.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	97



## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744235.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 2:23  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE

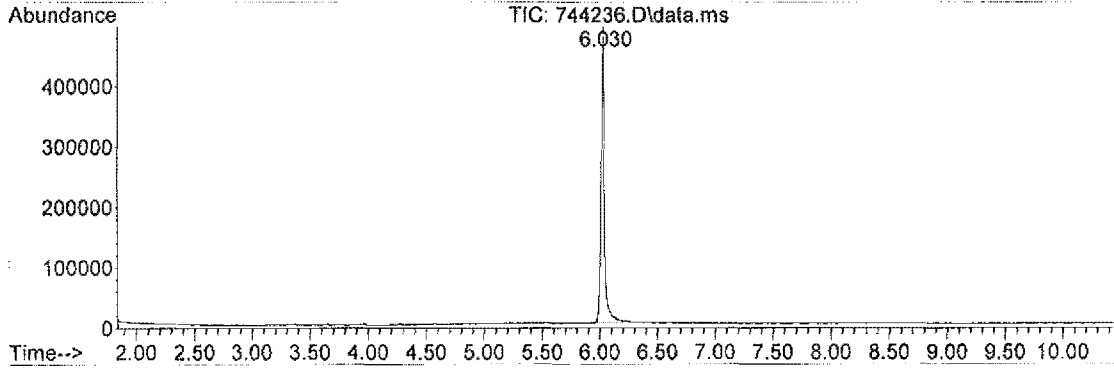


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744236.D  
 Operator : ASD  
 Date Acquired : 23 Sep 2010 2:36  
 Sample Name : CLONAZEPAM STD  
 Submitted by : ASD  
 Vial Number : 36  
 AcquisitionMeth: CLONAZ.M  
 Integrator : RTE



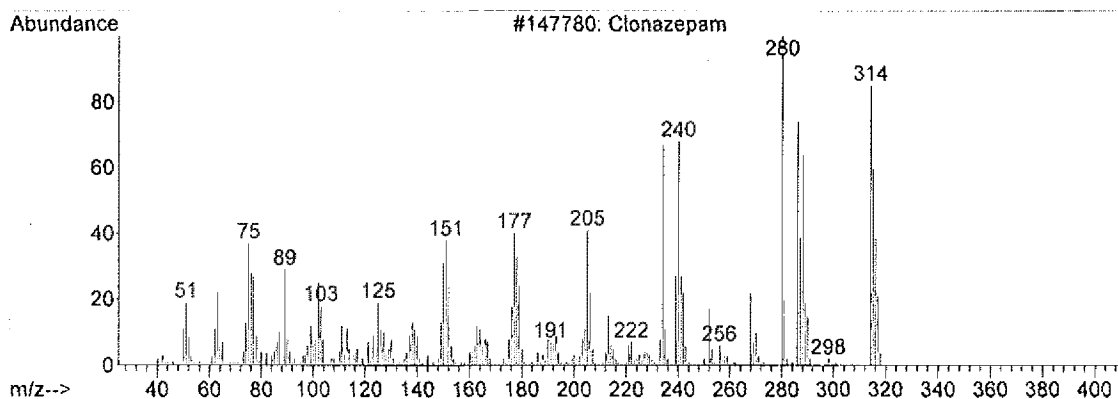
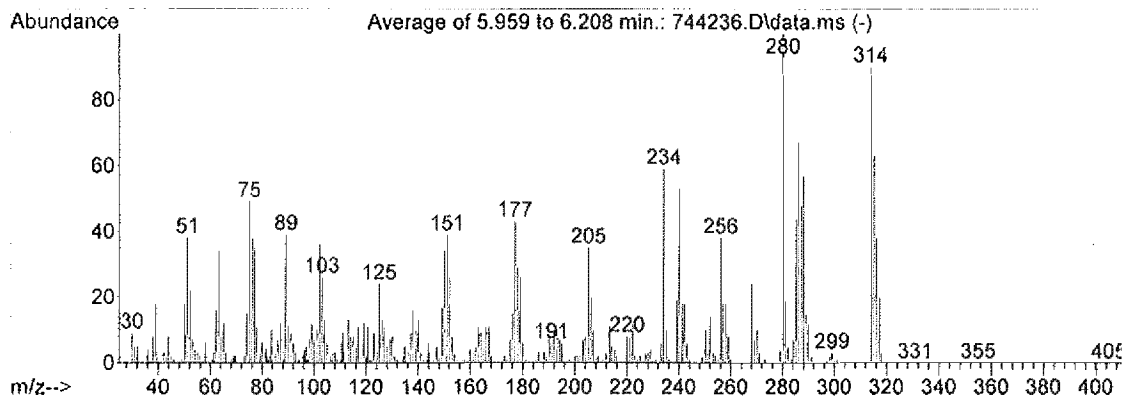
Ret. Time	Area	Area %	Ratio %
6.030	941213	100.00	100.00

## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744236.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 2:36  
Sample Name : CLONAZEPAM STD  
Submitted by : ASD  
Vial Number : 36  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE

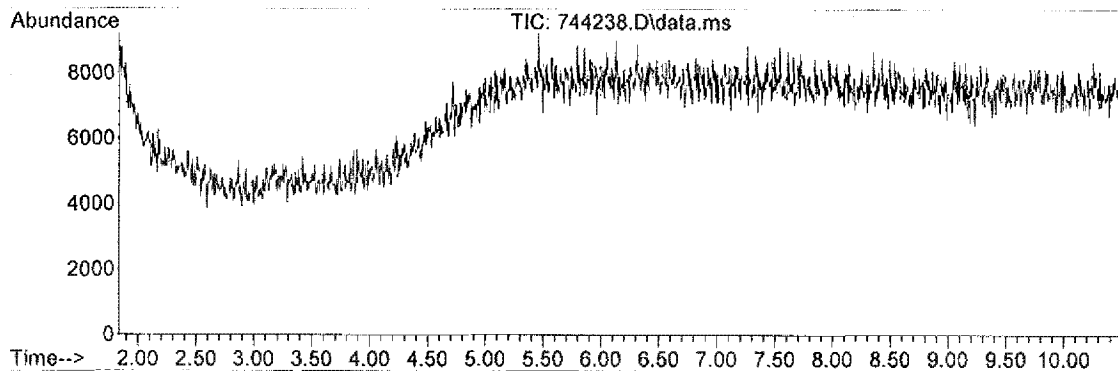
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.03	C:\Database\NIST08.L		
		Clonazepam	001622-61-3	99
		Clonazepam	001622-61-3	99
		Clonazepam	001622-61-3	99



## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744238.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 3:02  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE



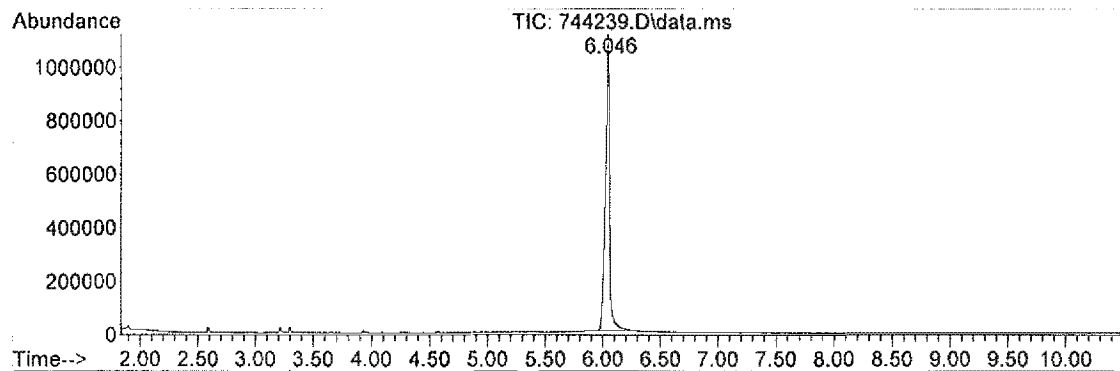
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744239.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 3:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 39  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE



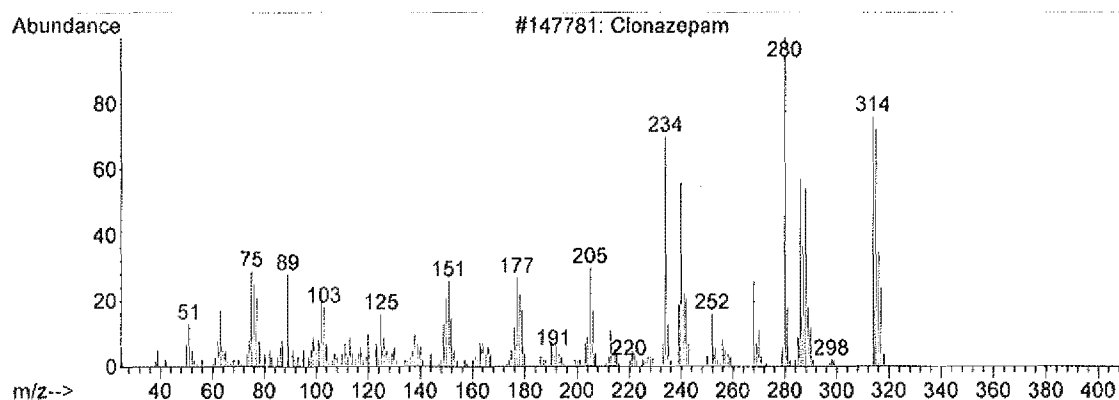
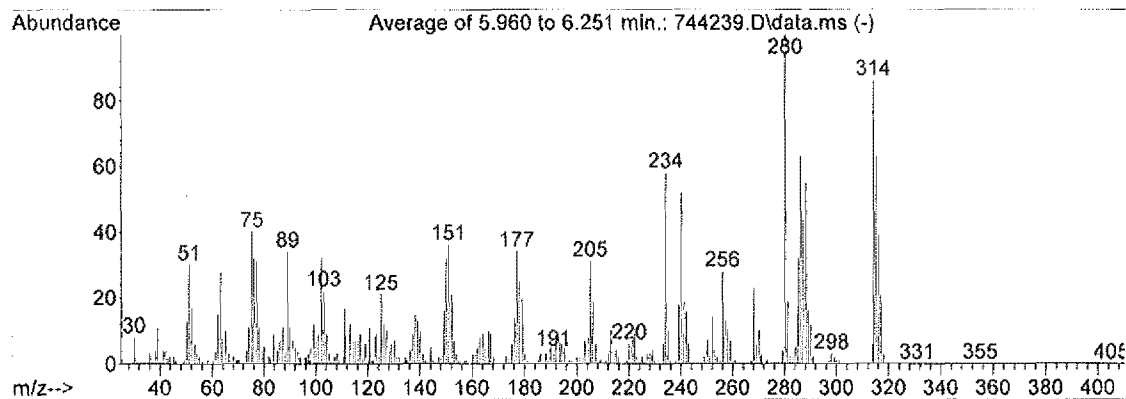
Ret. Time	Area	Area %	Ratio %
6.046	2704928	100.00	100.00

## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744239.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 3:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 39  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE

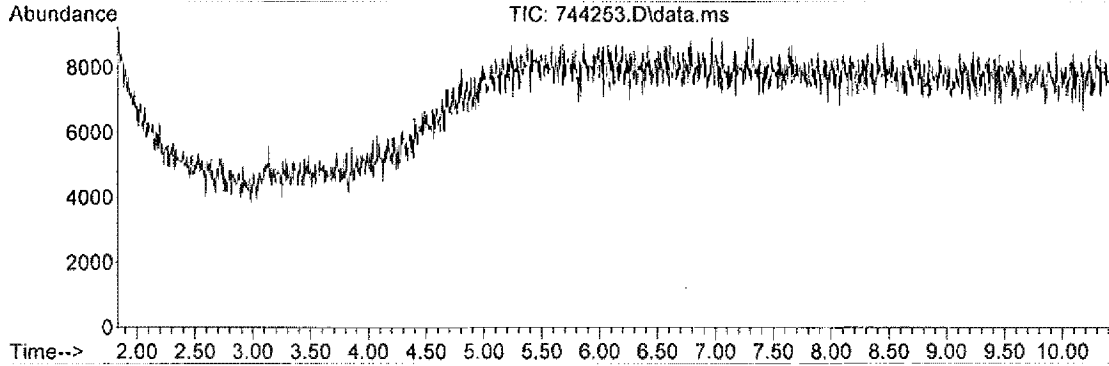
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.05	C:\Database\NIST08.L		
		Clonazepam	001622-61-3	99
		Clonazepam	001622-61-3	99
		Clonazepam	001622-61-3	99



## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744253.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 6:19  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE

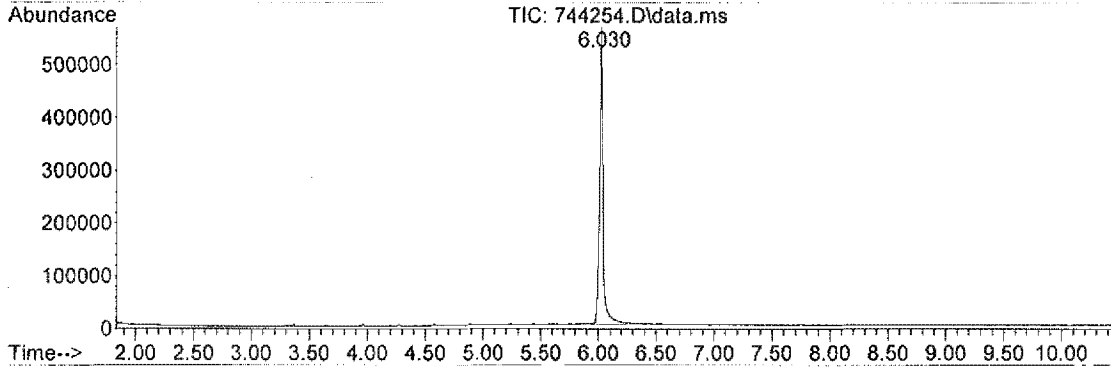


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744254.D  
 Operator : ASD  
 Date Acquired : 23 Sep 2010 6:32  
 Sample Name : CLONAZEPAM STD  
 Submitted by : ASD  
 Vial Number : 36  
 AcquisitionMeth: CLONAZ.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.030	1149711	100.00	100.00

## Information from Data File:

File Name : F:\Q3-2010\System6\09\_22\_10\744254.D  
Operator : ASD  
Date Acquired : 23 Sep 2010 6:32  
Sample Name : CLONAZEPAM STD  
Submitted by : ASD  
Vial Number : 36  
AcquisitionMeth: CLONAZ.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.03	C:\Database\NIST08.L		
		Clonazepam	001622-61-3	99
		Clonazepam	001622-61-3	99
		Clonazepam	001622-61-3	99

